

ABSTRACT

Nanometric or mesoscopic dissymmetric particles, and method for preparing same

The invention relates to nanometric or mesoscopic dissymmetric particles, and to a method for preparing the same.

The particles have an inorganic part A and a spherical organic part B bound by physicochemical or covalent interactions. Material A is a metal oxide, a metal or a metal chalcogenide. Material B is a polymer consisting of recurrent units derived from a vinyl compound. The particles are obtained by modifying the surface of material A particles with a coupling agent C having a function F_c which exhibits affinity for the polymer, and contacting the modified inorganic particles with the precursor(s) of the polymer B, in the presence of a free radical initiator and of a surfactant in solution in a solvent.